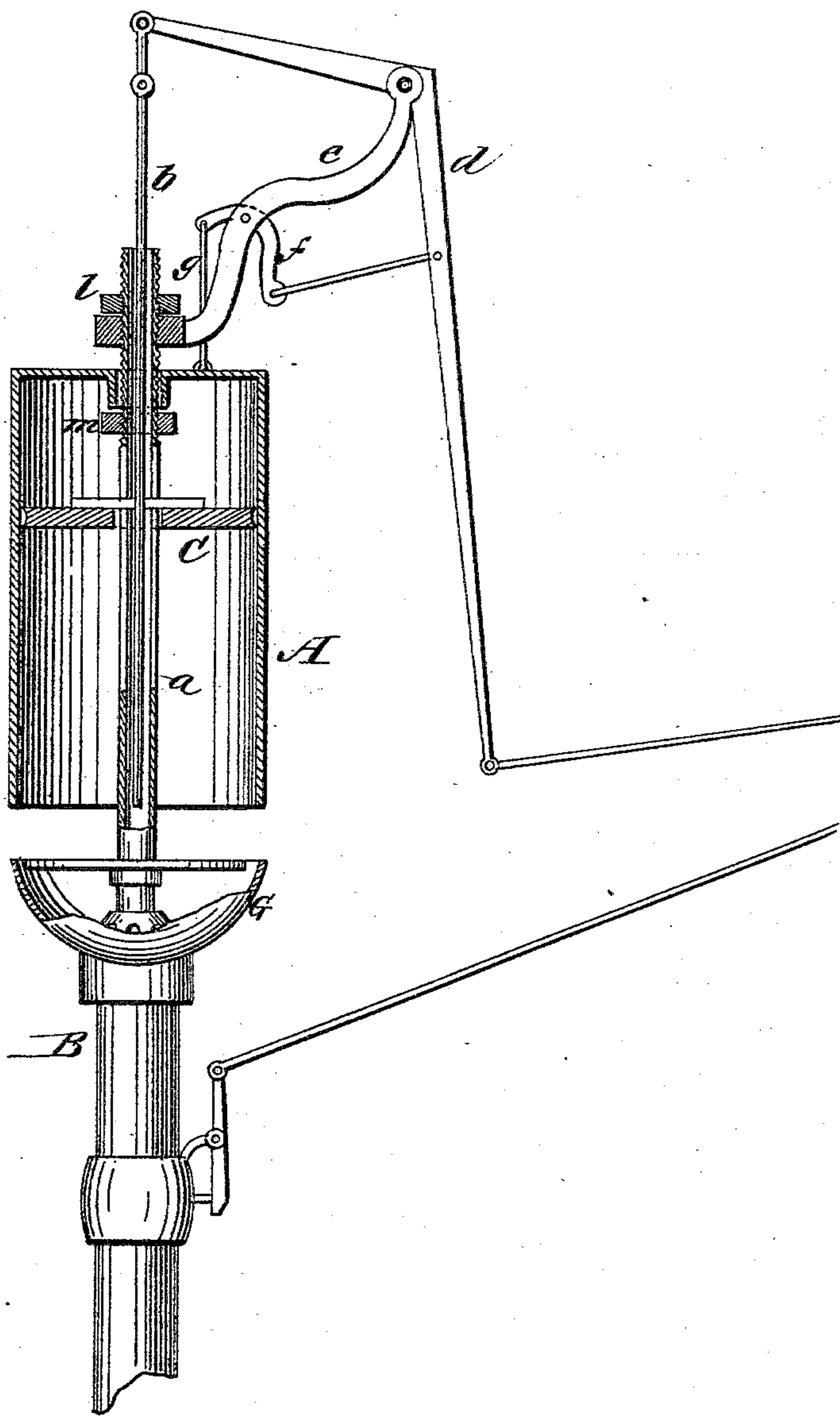


(No Model.)

J. E. GAUSE.
STEAM WHISTLE.

No. 286,420.

Patented Oct. 9, 1883.



WITNESSES:

Francis M. Andle.
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INVENTOR:

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UNITED STATES PATENT OFFICE.

JAMES E. GAUSE, OF BROWNSVILLE, TENNESSEE.

STEAM-WHISTLE.

SPECIFICATION forming part of Letters Patent No. 286,420, dated October 9, 1883.

Application filed April 10, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES E. GAUSE, of
Brownsville, in the county of Haywood and
State of Tennessee, have invented a new and
Improved Steam-Whistle, of which the fol-
lowing is a full, clear, and exact description.

My invention consists in the combination,
with the bell of a steam-whistle, of a movable
valve fitted for operation by the engineer to
change the tone of the whistle; and it further
consists in means for adjusting the bell to the
steam-outlet, so as to secure a clear tone, as
hereinafter described and claimed.

Reference is to be had to the accompanying
drawing, which is a sectional elevation of a
whistle with my improvement.

A is the bell, sustained upon a hollow sup-
port, *a*, which is screwed into the cone inside
of the cup G, which cone has outlets for escape
of steam. The upper end of the support *a* is
screw-threaded, to receive the bell, so that the
latter may be moved up and down to adjust its
lower edge to and from the steam-orifice, so
that a clear tone may be secured. C is the ad-
justable valve contained within the bell and
connected upon a rod, *b*, through slots in the
support *a*. The rod passes up through the
hollow support *a*, and is connected at its upper
end to a crank-lever, *d*, so that by movement
of the crank-lever the valve may be moved
back and forth in the bell, and the tone of the
whistle thus changed. Upon the arm *e*, that
supports the crank-lever *d*, is pivoted a second
lever, *f*, one end of which is connected to the
lever *d*, while the other end connects by a rod,
g, to the upper end of the bell, so that when

the crank-lever *d* is moved to change the tone
of the whistle the bell will be at the same time
adjusted to and from the steam-aperture, in or-
der that the tone of the whistle shall be clear
in any position of the valve C. The lever *f*
may, however, be dispensed with, and the bell
fixed at any point by means of the nuts *l m*, or
by having the bell threaded and screwed on.
By this construction the alarm given by the
whistle can be varied readily at the will of
the engineer. It is available for cattle-alarm,
or for giving peculiar signals for other pur-
poses.

I am aware that it is not new to use a sliding
sleeve on the fixed bell of a steam-whistle to
produce varying sounds, or to employ a piston
or valve movable up and down in the fixed
bell for the same purpose; but

What I do claim as new and of my invention
is—

1. The combination, with the piston or valve
C, hollow slotted support *a*, and the thereto
attached bell A, of the rod *b*, attached to said
valve, and the lever *d*, connected by a joint
with the end of said rod, whereby the valve
is always centered by the rod and hollow sup-
port, as shown and described.

2. The combination, with the bell and valve
A C, of the rod *b*, lever *d*, and lever *f*, the lat-
ter rod connected with the bell and lever *d*,
and pivotally connected to an intermediate
support, as and for the purpose specified.

JAMES EZRA GAUSE.

Witnesses:

S. F. THOMAS,

JAS. A. DUPREE.